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3-16-06

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

NADLER ET AL.

APPLICATION NO: 10/755,889

FILED: JANUARY 13, 2004

FOR: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH

THE NF-KB PATHWAY

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Some of the listed references were cited in a search report in a corresponding European application. Copies of these references and the search report are enclosed herewith.

Also, copies of the other cited references are enclosed herewith.

In accordance with 37 C.F.R. §1.98(a)(2)(iii), applicants wish to call the Examiner's attention to related application U.S. Serial No. 10/308,279, filed December 3, 2002.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Certificate under 37 C.F.R. §1.97(e)(1)

I, the undersigned agent, hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

Respectfully submitted,

Bristol-Myers Squibb Company Patent Department P.O. Box 4000 Princeton, NJ 08543-4000 (609) 252-5289

Date: 3-/6-06

Stephen C. D'Amico Agent for Applicants Reg. No. 46,652

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	AP	·	sm of SMRT Cor	repressor Recruitment by				ain", Mo	lec. Ce	ll, Vol
• ,	AQ	Albagli-Curiel, et al., "A 507-516(2003)	mbivalent role of	FBCL6 in cell survival and	d transfor	matio	n", O	ncogene,	Vol. 2	2, pp.
	AR	Arima, et al., "A Putative 829-836 (2002)	e Silencer Elemen	nt in the IL-5 Gene Recog	nized by I	Bc16"	, J. In	nmunol.,	Vol. 1	69, pp

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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ATTY. DOCKET NO. D0284 NP APPLICATION NO. 10/755,889 **APPLICANT** NADLER ET AL. FILING DATE JANUARY 13, 2004

Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	Baron, et al., "The human programmed cell death-2 (PDCD2) gene is a target of BCL6 repression:		
2AA	Implications for a role of BCL6 in the down-regulation of apoptosis", PNAS, Vol. 99(5), pp. 2860-2865 (2002)		
2AB	Bellido, et al., "Bcl-6 and p53 mutations in lymphomas carrying the bcl-2/jh rearrangement", Haematologica Vol. 87, pp. 908-917 (2002)		
2AC	Bos, et al., "Protein expression of B-cell lymphoma gene 6 (BCL-6) in invasive breast cancer is associated with cyclin D ₁ and hypoxia-inducible factor-1α (HIF-1α)", Oncogene, Vol. 22, pp. 8948-8951 (2003)		
2AD	Brown, et al., "Control of IκB-α Proteolysis by Site-Specific, Signal-Induced Phosphorylation", Science, Vol. 267, pp. 1485-1488 (1995)		
2AE	Burke, et al., "BMS-345541 Is a Highly Selective Inhibitor of IκB Kinase That Binds at an Allosteric Site of the Enzyme and Blocks NF-κB-dependent Transcription in Mice", J. Biol. Chem., Vol. 278(3), pp. 1450-1456 (2003)		
2AF	Cattoretti, et al., "BCL-6 Protein Is Expressed in Germinal-Center B Cells", Blood, Vol. 86(1), pp. 45-53 (1995)		
2AG	Chang, et. al., "Express on of p53, c-Myc, or Bcl-6 Suggests a Poor Prognosis in Primary Central Nervous System Diffuse Large B-Cell Lymphoma Among Immunocompetent Individuals", Arch. Pathol. Lab. Med., Vol. 127, pp. 208-212 (2003)		
2AH	Chang, et al., "BCL-6, a POZ/zinc-finger protein, is a sequence-specific transcriptional repressor", PNAS, Vol. 93, pp. 6947-6952 (1996)		
2AI	Davies, et al., "Novel BTB/POZ domain zinc-finger protein, LRF, is a potential target of the LAZ-3/BCL-6 oncogene", Oncogene, Vol. 18, pp. 365-375 (1999)		
2AJ	Mattos, et al., "FoxO3a and BCR-ABL Regulate cyclin D2 Transcription through a STAT5/BCL6-Depender Mechanism", Molec. Cell. Biol., Vol. 24(22), pp. 10058-10071 (2004)		
2AK	Dent, et al., "Control of Inflammation, Cytokine Expression, and Germinal Center Formation by BCL-6", Science, Vol. 276, pp. 589-592 (1997)		
2AL	Deregibus, et al., "HIV-1-Tat Protein Activates Phosphatidylinositol 3-Kinase/AKT-dependent Survival Pathways in Kaposi's Sarcoma Cells", J. Biol. Chem., Vol. 277(28), pp. 25195-25202 (2002)		
2AM	Dhordain, et al., "Corepressor SMRT binds the BTB/POZ repressing domain of the LAZ3/BCL6 oncoprotein", PNAS, Vol. 94, pp. 10762-10767 (1997)		
2AN	Flenghi, et al., "A Specific Monoclonal Antibody (PG-B6) Detects Expression of the BCL-6 Protein in Germinal Center B Cells", Amer. J. Pathol., Vol. 147(2), pp. 405-411 (1995)		
EXAMINER	DATE CONSIDERED		

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Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

		ding Author, Title, Date, Pertinent pages, Etc.)
3AA	Gupta, et al., "Lineage-specific Modulation Exp. Med., Vol. 190(12), pp. 1837-1848	on of Interleukin 4 Signaling by Interferon Regulatory Factor 4", J. (1999)
3AB	Hallermann, et al., "Molecular Cytogenet and MALT1 Gene Loci in Primary Cutan 219 (2004)	ic Analysis of Chromosomal Breakpoints in the IGH, MYC, BCL6, eous B-cell Lymphomas", J. Invest. Dermatol., Vol. 123, pp. 213-
3AC	Hiscott, et al., "Hostile takeovers: viral app. 143-151 (2001)	opropriation of the NF-KB pathway", J. Clin. Invest., Vol. 107(2),
3ÅD	Hofmann, et al., "The Promoter Context I the Glucocorticoid Receptor", Biol. Chen	Determines Mutual Repression or Synergism between NF-KB and n., Vol. 383, pp. 1947-1951 (2002)
3AE	Holton, et al., "A simple and efficient me Nucleic Acids Res., Vol. 19(5), pp. 1156	thod for direct cloning of PCR products using ddT-tailed vectors", (1990)
3AF	Johnson, et al., "A Simple, Rapid Technic Using a Single Optical Filter Set", GATA	que for Precise Mapping of Multiple Sequences in Two Colors A, Vol. 8(2), pp. 75-76 (1991)
3AG	Huynh, et al., "BC0R, a novel corepresso 1823 (2000)	r involved in BCL-6 repression", Genes Devel., Vol. 14, pp. 1810-
3AH	Jardin, et al., "Intronic BCL-6 mutations at t(3:14)(q27;q32) non-Hodgkin B-cell lym	are preferentially targeted to the translocated allele in aphoma", Blood, Vol. 102, pp. 1872-1876 (2003)
3AI	Jardin, et al., "Clinical and biological rele mutations of the BCL6 first intron in folli	vance of single-nucleotide polymorphisms and acquired somatic cular lymphoma", Leukemia, Vol. 19, pp. 1824-1830 (2005)
3AJ	Johnson, et al., "A Simple, Rapid Technic Using a Single Optical Filter Set", GATA	que for Precise Mapping of Multiple Sequences in Two Colors ., Vol. 8(2), pp. 75-76 (1991)
3AK	Johnson, et al., "Molecular Cloning of a N Vol. 266(6), pp. 3402-3407 (1991)	Novel Human cdc2/CDC28-like Protein Kinase", J. Biol. Chem.,
3AL	Kanazawa, et al., "Expression of bcl-6 pro 47, pp. 600-607 (1997)	otein in normal skin and epidermal neoplasms", Path. Internat., Vol.
3AM	Katzenberger, et al., "Cytogenetic Alterat Lymphomas Grade 3B with a Diffuse Lar (2004)	ions Affecting BCL6 Are Predominantly Found in Follicular ge B-Cell Component", Amer. J. Pathol., Vol. 165(2), pp. 481-490
3AN	Kerchaert, et al., "LAZ3, a novel zinc-fing translocations in human lymphomas", Na	ger encoding gene, is disrupted by recurring chromosome 3q27 ture Genetics, Vol. 5, pp. 66-70 (1993)
EXAMINER		DATE CONSIDERED

^{*}EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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NADLER ET AL.
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JANUARY 13, 2004

Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	Kurosu, et al., "BCL6 overexpression prevents increase in reactive oxygen species and inhibits apoptosis
4AA	induced by chemotherapeutic reagents in B-cell lymphoma cells", Oncogene, Vol. 22, pp. 4459-4468 (2003)
4AB	Lee, et al., "POZ Domain Transcription Factor, FBI-1, Represses Transcription of ADH5/FDH by Interacting with the Zinc Finger and Interfering with DNA Binding Activity of SP1", J. Biol. Chem., Vol. 277(30), pp. 26761-26768 (2002)
4AC	Lemercier, et al., "Class II Histone Deacetylases Are Directly Recruited by BCL6 Transcriptional Repressor", J. Biol. Chem., Vol. 277(24), pp. 22045-22052 (2002)
4AD	Li, et al., "BCL-6 Negatively Regulates Expression of the NF-KB1 p105/p50 Subunit", J. Immunol., Vol. 174, pp. 205-214 (2005)
4AE	Lin, et al., "The expression of bcl-2 and bcl-6 protein in normal and malignant transitional epithelium", Urol. Res., Vol. 31, pp. 272-275 (2003)
4AF	Lossos, et al., "The BCL6 gene in B-cell lymphomas with 3q27 translocations is expressed mainly from the rearranged allele irrespective of the partner gene", Leukemia, Vol. 17, pp. 1390-1397 (2003)
4AG	Migliazza, et al., "Frequent somatic hypermutation of the 5' noncoding region of the BCL6 gene in B-cell lymphoma", PNAS, Vol. 92, pp. 12520-12524 (1995)
4AH	Miki, et al., "Molecular Cloning of the Breakpoint for 3q27 Translocation in B-Cell Lymphomas and Leukemias", Blood, Vol. 83(1), pp. 217-222 (1994)
4AI	Miki, et al., "Gene Involved in the 3q27 Translocation Associated With B-Cell Lymphoma, BCL5, Encodes a Krüppel-Like Zinc-Finger Protein", Blood, Vol. 83(1), pp. 26-32 (1994)
4AJ	Min, et al., "Point mutation of 5' noncoding region of BCL-6 gene in primary gastric lymphomas", World J. Gastroenterol, Vol. 11(1), pp. 51-55 (2005)
4AK	Montesinos-Rongen, et al., "Molecular Characterization of BCL6 Breakpoints in Primary Diffuse Large B-cell Lympomas of the Central Nervous System Identifies GAPD as Novel Translocation Partner", Brain Pathol., Vol. 13, pp. 534-538 (2003)
4AL	Niu, Huifeng, "The Proto-Oncogene BCL-6 In Normal And Malignant B Cell Development", Hematology Oncology, Vol. 20, pp. 155-166 (2002)
4AM	Niu, et al., "BCL6 Controls the Expression of the B7-1/CD80 Costimulatory Receptor in Germinal Center B Cells", J. Exp. Med., Vol. 198(2), pp. 211-221 (2003)
4AN	Ohno, H., "Pathogenetic role of BCL6 translocation in B-cell non-Hodgkin's lymphoma", Histol Histopathol., Vol. 19, pp. 637-650 (2004)
EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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APPLICANT
NADLER ET AL.
FILING DATE
JANUARY 13, 2004

Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

5AA	Onizuka, et al., "BCL-6 Gene Product, a 92- to 98-KD Nuclear Phosphoprotein, Is Highly Expressed in Germinal Center B Cells and Their Neoplastic Counterparts", Blood, Vol. 86(1), pp. 28-37 (1995)	
5AB	Pasqualucci, et al., "Molecular Pathogenesis of Non-Hodgkin's Lymphoma: the Role of Bcl-6", Leukemia Lymphoma, Vol. 44, Suppl. 3, pp. S5-S12 (2003)	
5AC	Pasqualucci, et al., "Mutations of the BCL6 proto-oncogene disrupt its negative autoregulation in diffuse large B-cell lymphoma", Blood, Vol. 101(8), pp. 2914-2923 (2003)	
5AD	Petrie, et al., "The Histone Deacetylase 9 Gene Encodes Multiple Protein Isoforms", J. Biol. Chem., Vol. 278(18), pp. 16059-16072 (2003)	
5AE	Phan, et al., "The BCL6 proto-oncogene suppresses p53 expression in germinal-centre B cells", Nature, Vol. 432, pp. 635-639 (2004)	
5AF	Pileri, et al., "High Frequency of BCL-6 Mutations and Consistent Expression of the Transcription Factors OCT-2, BOB. 1, and PU.1 in the Absence of Immunoglobulins", Amer. J. Path., Vol. 162(1), pp. 243-253 (2003)	
5AG	Pittaluga, et al., "BCL-6 Expression in Reactive Lymphoid Tissue and in B-Cell Non-Hodgkins Lymphomas", J. Pathol., Vol. 179, pp. 145-150 (1996)	
5AH	Rack, et al., "Translocation of BCL2 and BCL6 to the same immunoglobulin heavy chain locus in a case of Follicular Lymphoma", Leuk. Lymphoma, Vol. 46(10), pp. 1513-1516 (2005)	
5AI	Reichardt, et al., "Repression of inflammatory responses in the absence of DNA binding by the glucocorticoid receptor", EMBO J., Vol. 20(24), pp. 7168-7123 (2001)	
5AJ	Roumier, et al., "FISH analysis with a YAC probe improves detection of LAZ3/BCL6 rearrangement in non Hodgkin's lymphoma", Hematol. J., Vol. 1, pp. 117-125 (2000)	
5AK	Shen, et al., "Mutation of BCL-6 Gene in Normal B Cells by the Process of Somatic Hypermutation of Ig Genes", Science, Vol. 280, pp. 1750-1752 (1998)	
5AL	Shvarts, et al., "A senescence rescue screen identifies BCL6 as an inhibitor of anti-proliferative p19 ^{ARF} -p53 signaling", Genes Develop., Vol. 16, pp. 681-686 (2002)	
5AM	Sidransky, et al., "Identification of p53 Gene Mutations in Bladder Cancers and Urine Samples", Science, Vol. 252, pp. 706-709 (1991)	
5AN	Tokuhisa, Takeshi, "A role for Bc16 in immune memory development", Vol. 47(16), pp. 2306-2312 (2002)	
EXAMINER	DATE CONSIDERED	

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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APPLICANT
NADLER ET AL.
FILING DATE
JANUARY 13, 2004

Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	Ueda, et al., "Non-immunoglobulin/BCL6 Gene Fusion in Diffuse Large B-cell Lymphoma: Prognostic		
6AA	Implications", Leukemia Lymphoma, Vol. 43(7), pp. 1375-1381 (2002)		
6AB	Vasanwala, et al., "Repression of AP-1 Function: A Mechanism for the Regulation of Blimp-1 Expression and B Lymphocyte Differentiation by the B Cell Lymphoma-6 Protooncogene", J. Immunol., Vol. 169, pp. 1922-1929 (2002)		
6AC	Wang, et al., "Stat1 as a Component of Tumor Necrosis Factor Alpha Receptor 1-TRADD Signaling Complex to Inhibit NF-KB Activation", Molec. Cell. Biol., Vol. 20(13), pp. 4505-4512 (2000)		
6AD	Wlodarska, et al., "Frequent occurrence of BCL6 rearrangements in nodular lymphocyte predominance Hodgkin lymphoma but not in classical Hodgkin lymphoma", Blood, Vol. 101(2), pp. 706-710 (2003)		
6AE	Wong, et al., "Components of the SMRT Corepressor Complex Exhibit Distinctive Interactions with the POZ Domain Oncoproteins PLZF, PLZF-RARα, and BCL-6", J. Biol. Chem., Vol. 273(42), pp. 27695-27702 (1998)		
6AF	Ye, et al., "The BCL-6 proto-oncogene controls germinal-centre formation and Th2-type inflammation", Nature Genetics, Vol. 16, pp. 161-170 (1997)		
6AG	Ye, et al., "Alterations of a Zinc Finger-Encoding Gene, BCL-6, in Diffuse Large-Cell Lymphoma", Science Vol. 262, pp. 747-750 (1993)		
6АН	Zhang, et al, "A Putative Exonic Splicing Polymorphism in the BCL6 Gene and the Risk of Non-Hodgkin Lymphoma", J. National Cancer Institute, Vol. 97(21), pp. 1616-1618 (2005)		
6AI	Zhou, et al., "Transcriptional Regulation of the BCL-6 Gene: Mechanistic Dissection Using Mutant Cell Lines", Molec. Medicine, Vol. 8(10), pp. 645-654 (2002)		
6AJ	NCBI Entrez Accession No. AB018337 (gi:3882308), Nagase, et al., June 16, 1999		
6AK	NCBI Entrez Accession No. AB056421 (gi:13358931), Osada, et al., March 1, 2005		
6AL	NCBI Entrez Accession No. L29219 (gi:632963), Johnson, et al., January 24, 1995		
6AM	NCBI Entrez Accession No. NM_001706 (gi:21040323), Zhang, et al., December 4, 2005		
6AN	NCBI Entrez Accession No. NM_005500 (gi:4885584), Lois, et al., October 16, 2005		
EXAMINER	DATE CONSIDERED		

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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JANUARY 13, 2004

Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

		NCBI Entrez Accession No. NM_016323 (gi:7705930), Hochrainer, et al., October 23, 2005
	7AA	NCBI Entite2 Accession No. NW_010323 (gl. 1/03930), Hochianier, et al., October 23, 2003
·	7AB	NCBI Entrez Accession No. NM_022136 (gi:48762708), Zhu, et al., October 18, 2005
	7AC	NCBI Entrez Accession No. NM_145169 (gi:21553316), Director MGC Project., September 24, 2005
	7AD	
	7AE	
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